

# IFN636 Assessment 2 Software development, testing and conguration: Details

## Overview

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### Task description

To simulate the real-world software development lifecycle by collaboratively designing, developing, and deploying an object-oriented application using advanced OOP concepts, popular design patterns, and GitHub for version control. The project will also involve a software requirements specification (SRS) and UI/UX prototyping using Figma. We will provide an SRS template later.

Your group must choose **one project** from the **set of projects previously selected by group members in Assessment 1**. The group will work collaboratively on the chosen project for this assessment. Before selecting, you must form the group. Please click on the **People** menu to form the group.

**Task details:** [Assessment 2- Software development, testing and configuration](https://canvas.qut.edu.au/courses/22619/files/6805623?wrap=1)

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**Submission Template:** [Assessment 2 - Software development, testing and configuration.docx](https://canvas.qut.edu.au/courses/22619/files/6805624?wrap=1)

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### Unit Learning Outcomes assessed

**ULO 1:** Explain the key stages of the software life cycle, the different artefacts associated required to be produced through these and

the supportive techniques, languages and tools used.

**ULO 3:** Develop a software implementation and test plans comprising a software application module, its components and application programming interfaces.

**ULO 4:** Configure a software implementation using Cloud systems to meet given performance and scalability requirements when it is operated.

**ULO 5:** Apply effective teamwork using ICT professional roles and project work practices.

#### Details

Estimated time for completion	Weighting	Group or Individual	How I will be assessed
15 to 20 hours	50% of final grade	Group	Using a 7-Point grading scale

## What you need to do

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You need to complete the following tasks:

- SRS documentation
- UI/UX Design Using Figma
- Design Pattern and OOP Principles
- Team Collaboration via GitHub
- Functional Testing (only unit testing)
- API Testing using Postman
- CI/CD Pipeline
- Report

After submitting your Assessment 2, you will need to have a **group presentation**, which will be conducted during the **Tutorial and Review Lecture session**. We will allocate a time for you to do so.

Please note that your assessment **will not be marked if you do not present during the group presentation**. If you have any questions, please talk to your tutor.

## What to submit

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A report containing all the completed tasks, a template has been provided.

# How to submit

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Upload your work using the Assessment 2 submission link. The submission link will be available in Week 8.



## Important

After uploading your assignment, you should click the **Submit** button. You will see a submitted date and time appear at the top of your screen. Unless you see this date and time, **your assignment has not been successfully** submitted and you should contact HiQ at [askqut@qut.edu.au](mailto:askqut@qut.edu.au) (<mailto:askqut@qut.edu.au>) or 3138 2000. You can also check that your assignment has been submitted by clicking on the **Grades** link. You should see the **date** and **time** (in the "Submitted" column) beside the **name** of the assessment task.

## Feedback

Under normal circumstances, you will receive marks for each criterion via a Canvas rubric within 10-15 working days of submission. Click on Grades to see your results. Usually the reason for each choice of mark is self-evident, the marker will include some written feedback about your performance. You should use this feedback to strengthen your performance in the next assessment item.

## Moderation

All staff who are assessing your work meet to discuss and compare their judgements before marks or grades are finalised.